



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name:

See sticker

Date:

9-25-19

(mm/dd/yyyy)

WIN/ Field ID:

WBID: 1547

Latitude:

(Decimal Degrees)

County:

HILLS

ORG ID: 21FLTPA

Longitude:

(Decimal Degrees)

Receiving Body of Water:

Hillsborough River

RQ-2019-

09-23-56

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Judy Ashton									
Ben Paswater									
Sarah Meyer									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	

Depth Measured with: Secchi
Equipment ID: Secchi #1

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# CHEWY

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Interstitial / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)
EST	0950	0.15	0.15	0.15	7.36	86.9	6.52	0.12	259.6	23.7
				"S"						

Biological Samples Collected: ~~HA~~ HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H2SO4			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:

Field ID/WIN

G2SW0087

Site Name: Seffner Canal

Signature:

[Signature]

Date:

9-25-19

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

PUT STICKER UP HERE Seffer Canal		STORET STATION NUMBER: see sticker	DATE (MM/DD/YY): 9/25/19	SAMPLING AGENCY: FDEP SWROC
FIELD ID/NAME: see sticker	LOCATION:	COUNTY: Hillsborough	RECEIVING BODY OF WATER: Hillsborough River	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components 3	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Diversity 4	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity 14	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering 2 ----- Primary Score 23	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components Artificial Channelization 3	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank Left Bank 4 4	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. LR 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank Left Bank 9 9	Width of vegetation greater than 18 m LR 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank Left Bank 2 2 ----- Secondary Score 33	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). LR 3 2 1

TOTAL SCORE

Date: 9/25/19	Analyst: Ben Pisswater	Signature: Ben Pisswater
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch

Location: Selfner Creek
 Date: 9/25/19
 Sampler: BS SJ JA

100 m: Latitude _____
 Longitude _____
 0 m: Latitude _____
 Longitude _____

Substrates: Code key, draw proportionate habitat abundance.

- ☐ Snags _____
- ☐ Roots/undercut banks _____
- ☐ Leaf Packs (or mats) _____
- ☒ Aquatic Macrophytes 3.9
- ☐ ROCKS _____
- ☐ _____
- ☒ Pools total # observed = 8
range expected 8

Average width 10 m

Average depth 0.15 m

Velocity measured at 100 meter mark.

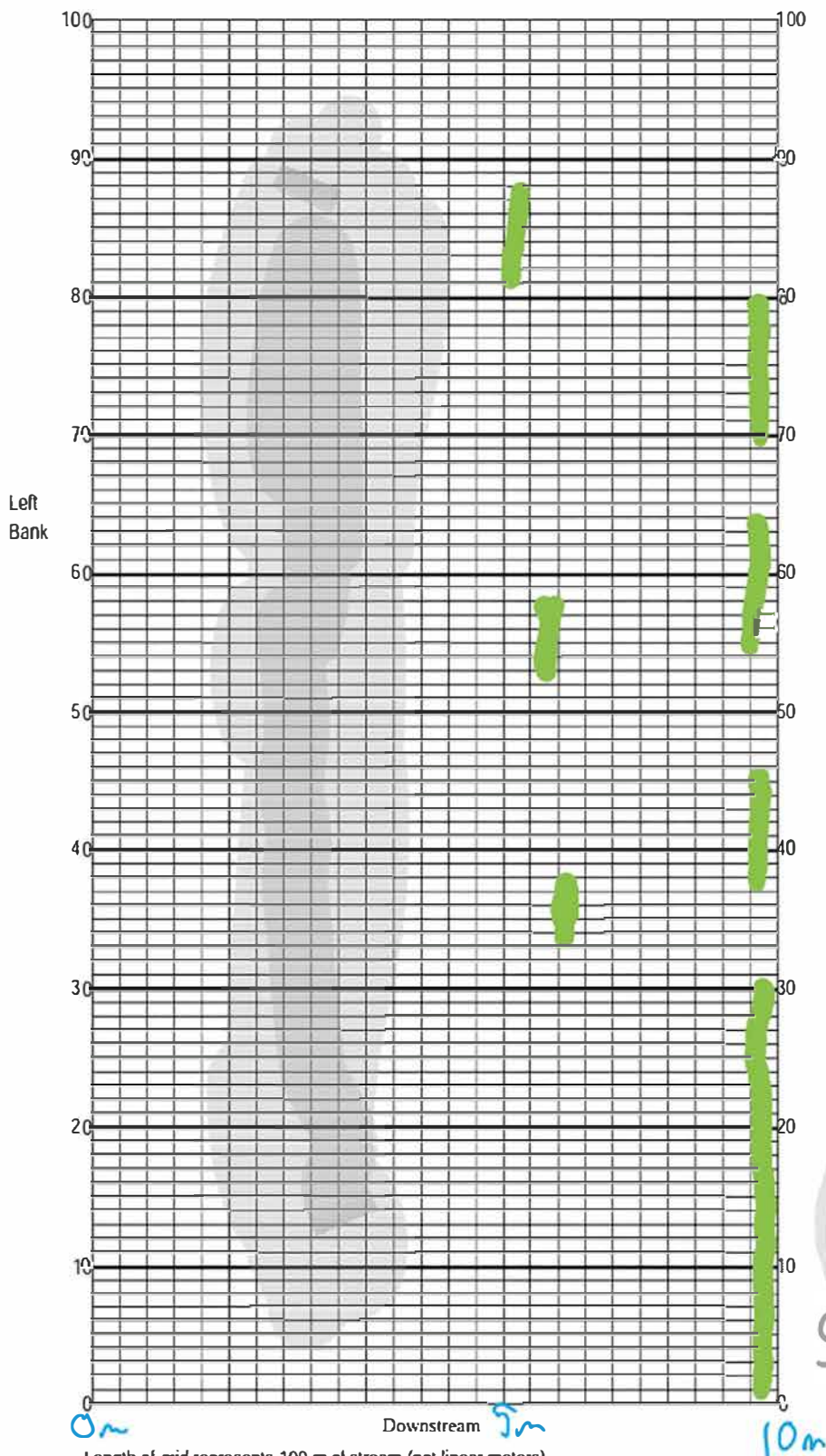
WQ & chemistry taken at 100 meter m

Habitat Smothering:
 Note areas (on map) where sand or silt is smothering substrates, limiting habitability

Bank Stability:
 Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
 Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:



Length of grid represents 100 m of stream (not linear meters).
 (Horizontal scale is double vertical scale, draw proportionately).

Site Name: Seffner Canal

ate:

County: Hills

Waterbody:

Signature:

SEFFNER CANAL

V66 72m²

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names. **bold is exotic invasive**

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Alternanthera philoxeroides	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara sp.												Panicum repens											
Cicuta maculata												Panicum rigidulum											
Cladium jamaicense												Pistia stratioides											
Colocasia esculenta	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Polygonum glabra											
Commelina diffusa												Polygonum hydropiperoides											
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata											
Cyperus												Potamogeton illinoensis											
Diodia virginiana												Ruellia simplex											
Eichhornia crassipes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Sacciolepis striata											
Eleocharis (wispy viviparous)												Sagittaria kurziana											
Hydrilla verticillata												Sagittaria lancifolia											
Hydrocotyle sp.												Sagittaria latifolia											
Hygrophila polysperma												Salvinia minima											
Hymenachne amplexicaulis												Samolus parviflora											
Hymenocallis												Saururus cernuus											
Lachnanthes caroliniana												Sparganium americanum											
Landoltia punctata												Sphagneticola trilobata (Wedelia)											
Lemna sp.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Typha sp.											
Limnophila sessiflora												Urochloa mutica (Para Grass)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		<i>paspalum repens</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ludwigia repens	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		<i>urena</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Luziola fluitans												<i>Indigalia decurrens</i>											
												<i>Ludwigia octo</i>											
												<i>crusgali, walteri</i>											
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

PINK EGGS ABUNDANT

flow 0.2



Site Name: Seffner Canal

LATITUDE

LONGITUDE

SAMPLING AGENCY FDEP SW ROC

SITE NAME see sticker

RECEIVING BODY OF WATER

RIPARIAN ZONE / STREAM FEATURES

RD-2019-09-23-56

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural 50 Silviculture Field/Pasture 10 Agricultural 10 Residential 20 Commercial Industry Other (Specify)							Landscape Development Intensity Index (LDI)
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect m wide m/s 0.2 m/s m/s m deep m deep m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: 18m Right Bank: 18m				Hydrologic Modification Score (per FT 3101) 7			
High Water Mark: + = (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☐ No			
Artificially ☐ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☒ Recent, severe				Canopy Cover % ☒ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☐ Moderate Shaded (46-80%)			

SEDIMENT / SUBSTRATE

Sediment Oils ☐ Absent ☒ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):			Smothering of Substrates Sand Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☒ Algae Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐		
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon % Coverage INVERT # Times Sampled PERI # Times Sampled Woody Debris (Snags) Undercut Banks / Roots Leaf Packs or Mat Aquatic Vegetation 3.9 Rock or Shell Rubble.. Sand..... Mud / Muck / Silt Other Other			WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: 0.15 Mid: ☒ VOB Bottom: 0.12 23.7 6.52 7.36 86.9 259.6 0.15 TOTAL DEPTH 0.15 Meter ID:					
Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify)		
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐		
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☐ ☒ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☐ ☒ ☐ Iron/Sulfur Bacteria: ☐ ☒ ☐ ☐			System Type: Stream ☐ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☒ CANAL					
AMBIENT FIELD CONDITIONS / NOTES: ☐ The antecedent hydrologic conditions have been met to my best knowledge.								

SAMPLING TEAM

SIGNATURE:

DATE:



Site Name: Seffner Canal

ORM FD 9000-25 Rapid Periphyton Survey Field Sheet

County: <u>HILLS</u>		Investigators: <u>J. Ashton, B. Pittman, S. Meyer</u>					RD-2019-09-23-56			
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	N			60	1	N			
	2					2				
	3					3				
	4					4				
	5			0		5				0
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			0		5				0
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			0		5				0
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			0		5				0
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			0		5				0
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N			Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank. Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6. Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.					
	2									
	3									
	4									
	5			0						
	6									
	7									
	8									
	9									

STORET Station Number:

G2SW0087

Secchi depth 0.12
Estimated? NO

points ranked 4-6 0
total points assessed 99
% points ranked 4-6 0

Check accompanying data
collected at same site/date.

Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon N/A
Water sample ☒

RD-2019-09-23-56

Algal Thickness Rank

N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Flow = 0.2

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Collected By: J Ashton, S Meyer, B Paswater

Field Report Prepared By: J Ashton

Sampling Agency: FDEP SW ROC

Location	☐ Comp ☒ Grab		Collection (comp begin or grab) Date 09/25/2019 Time 1700		Composite end Date		Bottle Group(s) (See pg 2)	
Field ID	WIN/		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen mg/L 7.36		Total Res. Chlorine (mg/L)	
WIN/	G2SW0087		Temp (C) 23.7		pH 6.52		Sample Depth 0.15	
Latitude	Site Name: Seffner Canal		Salinity (ppt) 0.12		Comments E. COLI DROPPED AT 2019		Sp. Conductance (umho/cm) 259.6	
Location	☐ dd ☐ dms		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
Field ID	WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen mg/L %		Total Res. Chlorine (mg/L)	
WIN/STORET #	Latitude		Temp (C)		pH		Sample Depth	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	
Field ID	WIN/STORET #		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
WIN/STORET #	Latitude		Temp (C)		pH		Sample Depth	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	
Field ID	WIN/STORET #		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
WIN/STORET #	Latitude		Temp (C)		pH		Sample Depth	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	
Field ID	WIN/STORET #		Collection (comp begin or grab) Date		Composite end Date		Bottle Group(s)	
WIN/STORET #	Latitude		Temp (C)		pH		Sample Depth	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	

Relinquished By: Sarah Meyer	Date/Time: 09/25/2019 1700	Shipping Method: FedEx	Number of Coolers Shipped: 1	Received By:	Date/Time:
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Advanced
Environmental Laboratories, Inc.

Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
Tallahassee: 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: FDEP SW Dist.		Project Name: SMP	
Address: 13051 N. Telecom Pkwy., Temple Terrace FL 33637		P.O. Number: B570AE B5A496	
Phone: 813-470-5770		Project Address:	
Contact: Judy Ashton 813-470-5772		Special Instructions: RQ-2019-04-23-56	
Sampled By:		Turn Around Time: ☒ STANDARD ☐ RUSH	
Page: 1 of 1		☐ ADAPT ☐ EQUIS ☐ Other	
SAMPLE ID	SAMPLE DESCRIPTION		
Field ID/WIN	G2SW0087		
Site Name: Seffner Canal			
Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge			
received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐			
CN: AD-051 Form last revised 04/30/2015			
Relinquished by: Date: 9/25/14 Time: 1300			
Received by: Date: 9-25-14 Time: 1300			
Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V			
Where required, pH checked ☐			
Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)			
Temperature when received (in degrees Celsius)			
FOR DRINKING WATER USE:			
PWS ID:			